

REMARKS

This responds to the Office Action mailed on January 3, 2007.

Claims 1, 5, 6, 12, 27 and 30 are amended. Claims 1-30 are now pending in this application.

§ 102 Rejection of the Claims

Claims 1-2, 5 and 30 were rejected under 35 U.S.C. § 102(b) as being anticipated by Tschulena (US 5,437,186). Independent claims 1 and 30 were amended to include the use of a ring resonator to provide light to the waveguide, and is believed consistent with the allowed claims. The remaining rejected claims depend from such independent claims and are believed allowable for at least the same reasons.

Claims 1-2, 10-12, 15 and 30 were rejected under 35 U.S.C. § 102(b) as being anticipated by Muller et al. (article in Materials Science in Semiconductor Processing, October 2000). Independent claims 1, 12 and 30 were amended to include the use of a ring resonator to provide light to the waveguide, and is believed consistent with the allowed claims. The remaining rejected claims depend from such independent claims and are believed allowable for at least the same reasons.

Claims 1-2, 5, 12-16, and 30 were rejected under 35 U.S.C. § 102(b) as being anticipated by Churenkov (article in Sensors and Actuators A, October 1996). Independent claims 1, 12, and 30 were amended to include the use of a ring resonator to provide light to the waveguide, and is believed consistent with the allowed claims. The remaining rejected claims depend from such independent claims and are believed allowable for at least the same reasons.

Claims 1, 7-9 and 27-30 were rejected under 35 U.S.C. § 102(a) as being anticipated by Evans et al. (US 6,525,307). Independent claims 1, 27 and 30 were amended to include the use of a ring resonator to provide light to the waveguide, and is believed consistent with the allowed

claims. The remaining rejected claims depend from such independent claims and are believed allowable for at least the same reasons.

§103 Rejection of the Claims

Claims 3-4 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Tschulena (cited above) in view of Rines (U.S. 4,414,471, cited in a previous action). These claims depend from a claim which is now believed allowable, and should be allowable for at least the same reasons.

Claim 6 was rejected under 35 U.S.C. § 103(a) as being unpatentable over Tschulena (cited above) in view of Cho et al. (U.S. 5,265,177, cited in a previous action). This claim depends from a claim which is now believed allowable, and should be allowable for at least the same reasons.

Allowable Subject Matter

Claims 17-26 were allowed.

CONCLUSION

Applicant respectfully submits that the claims are in condition for allowance, and notification to that effect is earnestly requested. The Examiner is invited to telephone Applicant's attorney at (612) 373-6972 to facilitate prosecution of this application.

If necessary, please charge any additional fees or credit overpayment to Deposit Account No. 19-0743.


Respectfully submitted,

ROBERTO R. PANEUCCI ET AL.

By their Representatives,

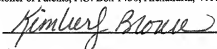
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Date / 4/2/2007 /

By / 
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CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being filed using the USPTO's electronic filing system EFS-Web, and is addressed to: Mail Stop Amendment, Commissioner of Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this 2 day of April 2007.

Kimberly Brown
Name


Signature